

Declaration Utility Application

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled
HIGH TEMPERATURE HEAP BIOLEACHING PROCESS">HIGH TEMPERATURE HEAP BIOLEACHING PROCESS, the specification of which

| (Check One) | is attached hereto OR was filed on August 29, 2000 as United States Application |
|-------------|---|
| | Serial No. 09/650,319 or PCT International Application No. and was amended on (if applicable). |

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

| Prior Foreign Application Number(s) | Country | Date of Filing | Priority Yes | Priority Claimed Yes No | |
|--|---------|----------------|-----------------|-------------------------|--|
| | | | | | |

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below.

| Application Number(s) | Filing Date | | |
|-----------------------|-------------|--|--|
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I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

| U.S. Parent Application Number | PCT Parent Number | Parent Filing Date | Status-Patented, Pending or Abandoned |
|-----------------------------------|-------------------|--------------------|---|
| 09/212,579 | | December 14, 1998 | Patented |
| | | | 6,110,253 |

Express Mail No. EL 740478036 US

Send Correspondence to YON & LYON LLP
David A. Randall 633 W Fifth St., Suite 4700
Los Angeles, CA 90071

Dire elephone calls to: (213) 489-1600 Ext. 3453

| | · | | | | |
|-----|-------------------------|-----------------------|-------------------------------------|--|--|
| | FULL NAME OF INVENTOR | FIRST Name William | MIDDLE Initial J. | LAST Name KOHR | |
| 201 | RESIDENCE & CITIZENSHIP | City San Mateo | State or Foreign Country California | Country of Citizenship United States of America | |
| | POST OFFICE ADDRESS | 40 Powhatan Place | City San Mateo | State or Country Zip Code 94402 | |
| | FULL NAME OF INVENTOR | FIRST Name Vandy | MIDDLE Initial | LAST Name SHRADER | |
| 202 | RESIDENCE & CITIZENSHIP | City Belmont | State or Foreign Country California | Country of Citizenship United States of America | |
| | POST OFFICE ADDRESS | 1934 Hillman Avenue | City Belmont | State or Country Zip Code USA 94002 | |
| | FULL NAME OF INVENTOR | FIRST Name Chris | MIDDLE Initial | LAST Name Johansson | |
| 203 | RESIDENCE & CITIZENSHIP | City San Bruno | State or Foreign Country California | Country of Citizenship United States of America | |
| | POST OFFICE ADDRESS | 2846 Fleetwood Drive | City San Bruno | State or Country Zip Code 94066 | |
| | FULL NAME OF INVENTOR | FIRST Name | MIDDLE Initial | LAST Name | |
| 204 | RESIDENCE & CITIZENSHIP | City | State or Foreign Country | Country of Citizenship | |
| | POST OFFICE ADDRESS | | City | State or Country Zip Code | |
| | FULL NAME OF INVENTOR | FIRST Name | MIDDLE Initial | LAST Name | |
| 205 | RESIDENCE & CITIZENSHIP | City | State or Foreign Country | Country of Citizenship | |
| | POST OFFICE ADDRESS | | City | State or Country Zip Code | |
| | FULL NAME OF INVENTOR | FIRST Name | MIDDLE Initial | LAST Name | |
| 206 | RESIDENCE & CITIZENSHIP | City | State or Foreign Country | Country of Citizenship | |
| | POST OFFICE ADDRESS | | City | State or Country Zip Code | |

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

| Signature of Inventor | 201 | Signature of Inventor | 204 |
|-----------------------|-----|-----------------------|-----|
| Willem 1/1h | _ | Ĭ | |
| Date /1/2/2008 | | Date | |
| Signature of Inventor | 202 | Signature of Inventor | 205 |
| Date 12/5/2000 | | Date | |
| Signature of Inventor | 203 | Signature of Inventor | 206 |
| Date 12.1/7.101. | - | Date | |

(Signatures should conform to names as presented at 201 et seq. above.)





POWER OF ATTORNEY

| HIGH TEMPER | RATURE HEAR | | | Letters Patent for an improvement J. KOHR, Vandy SHRADER and Chi | |
|---|--|---|--|---|---------------------------------------|
| | executed on | | _ and bearing a | attorney Docket No, o | ٦C |
| \boxtimes | filed having S | Serial No. <u>09/650,319 on A</u> | ugust 29, 200 | <u>0</u> . | |
| this application N. Smoot, Reg Robert M. Tayl 22,798; Robert 26,300; John D No. 26,605; J. Reg. No. 29,74 Anderson, Reg M. Olson, Reg Paul H. Meier, Mary S. Consa 38,948; Robert Reg. No. 34,87 Reg. No. 37,19 | and transact . No. 18,718; lor, Jr., Reg. N E. Lyon, Reg McConaghy, Donald McCa 49; Allan W No. 30,240; I . No. 30,790; Reg. No. 32,2 lvi, Reg. No. 3 C. Laurensor 4; Michael J. N 4; Theodore S | all business in the Patent Conrad R. Solum, Jr., Re No. 19,848; Samuel B. St No. 24,171; Robert C. Worker, Reg. No. 26,773; William orthy, Reg. No. 25,119; Jo Jansen, Reg. No. 29,39; David B. Murphy, Reg. No Steven D. Hemminger, Reg. Y4; John A. Rafter, Jr., Reg. 2,212; Lois M. Kwasigroon, Reg. No. 34,206; Caro Wise, Reg. No. 34,047; R | and Tradema eg. No. 20,467 tone, Reg. No. eiss, Reg. No. C. Steffin, Reg. hn M. Benass 5; Robert W. 31,125; Jame eg. No. 30,75 g. No. 31,653; h, Reg. No. 3 dl A. Schneide ichard J. Warb 593; Bruce G. | bstitution and revocation, to prosecular office connected therewith: Rolar in James W. Geriak, Reg. No. 20,23. 19,297; Douglas E. Olson, Reg. No. 24,939; Richard E. Lyon, Jr., Reg. Ng. No. 26,811; Coe A. Bloomberg, Reg. No. 26,811; Coe A. Bloomberg, Reg. Reg. No. 27,483; James H. Shale Dickerson, Reg. No. 29,914; Royes C. Brooks, Reg. No. 29,898; Jeffre in James H. Ohriner, Reg. No. 32,29; Kenneth H. Ohriner, Reg. No. 31,645,579; Lawrence R. LaPorte, Reg. No. 7, Reg. No. 34,923; Hope E. Melvill burg, Reg. No. 32,327; Kurt T. Mulvill Chapman, Reg. No. 33,846; and F. 37,217. | nd 3; o. o. g.k, L. ey 3; 6; o. e. e, |
| Send Corresp David A. Ran | | LYON & LYON LLP 633 W Fifth St., Suite 47 Los Angeles, CA 90071 | 00 | Direct Telephone calls to: (213) 489-1600 Ext. 3453 | |
| is a corporation assignee and I statements made made with the imprisonment, of | i, partnership of further declar de on informat knowledge th or both, under | or other association, I am a e that all statements mad ion and belief are believe nat willful false statement | authorized to rate herein of mand to be true; as and the like of the United S | dentified application or, if the assigned make this appointment on behalf of the control of the | ne all re or |
| 1 | | OBIOTICS, INC. | | | |
| Post Office Ad | dress: 14818 | W. 6 th Avenue, Suite 5-A, | Golden, Color | ado 80401 | |
| Signature of D | ectarant or As | Signor. | | December 12, 2000 | |
| Full Name of I | | esmond P. Kearns | <u> </u> | | |

Address of Declarant: GEOBIOTICS, INC., 14818 W. 6th Avenue, Suite 5-A, Golden, Colorado 80401

Title of Declarant: President and Chief Executive Officer



UNITED STATE DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SEPTEMBER 27, 2001

PTAS

LYON & LYON LLP
DAVID A. RANDALL
633 WEST FIFTH STREET
SUITE 4700
LOS ANGELES, CA 90071-2066



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UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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FLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE STATEMENT ON THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY SONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/23/2001

REEL/FRAME: 012002/0001

NUMBER OF PAGES: 5

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BRIEF: MERGER (SEE DOCUMENT FOR DETAILS).

ÄSSIGNOR:

GEOBIOTICS, INC.

DOC DATE: 12/28/2000

ASSIGNEE:

GEOBIOTICS, LLC 14818 WEST 6TH AVENUE SUITE 5-A

GOLDEN, COLORADO 80401

SERIAL NUMBER: 08329002

PATENT NUMBER:

FILING DATE: 10/25/1994

ISSUE DATE:

SERIAL NUMBER: 08459621

8459621

PATENT NUMBER:

FILING DATE: 06/02/1995

ISSUE DATE:

SERIAL NUMBER: 09650319

SERIAL NUMBER: 09709765

TOOLID DAME

FILING DATE: 08/29/2000

PATENT NUMBER:

ISSUE DATE:

FILING DATE: 11/10/2000

PATENT NUMBER:

ISSUE DATE:

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| | NUMBER: | 09735156 | |
|----------------------|--------------------|---------------------|---|
| SERIAL PATENT | NUMBER: | 08161742 5431717 | FILING DATE: 12/03/1993 ISSUE DATE: 07/11/1995 |
| SERIAL PATENT | NUMBER: | | |
| SERIAL PATENT | NUMBER: | 08453016 5611839 | FILING DATE: 05/30/1995 ISSUE DATE: 03/18/1997 |
| SERIAL PATENT | NUMBER: | 08476444 5676733 | FILING DATE: 06/07/1995 ISSUE DATE: 10/14/1997 |
| SERIAL PATENT | NUMBER: NUMBER: | 08652993 5688304 | FILING DATE: 05/24/1996 ISSUE DATE: 11/18/1997 |
| | 11011111111 | | FILING DATE: 04/22/1996 ISSUE DATE: 06/16/1998 |
| O SERIAL O PATENT | NUMBER: | 08547894 5779762 | FILING DATE: 10/25/1995 ISSUE DATE: 07/14/1998 |
| | NUMBER: | | FILING DATE: 03/18/1997 ISSUE DATE: 09/01/1998 |
| N PATENT | NUMBER: | 08588589 6083730 | FILING DATE: 01/18/1996 ISSUE DATE: 07/04/2000 |
| O SERIAL O PATENT | NUMBER: NUMBER: | | FILING DATE: 04/14/1998 ISSUE DATE: 07/11/2000 |
| U SERIAL PATENT | NUMBER: | 08886840 6107065 | FILING DATE: 07/01/1997 ISSUE DATE: 08/22/2000 |
| SERIAL PATENT | NUMBER: NUMBER: | • | FILING DATE: 12/14/1998 ISSUE DATE: 08/29/2000 |
| | NUMBER: NUMBER: | 08950279 6146444 | FILING DATE: 10/14/1997 ISSUE DATE: 11/14/2000 |
| | NUMBER: | 09097316 6159726 | FILING DATE: 06/12/1998 ISSUE DATE: 12/12/2000 |

TONYA LEE, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS Express Mail No. EL 740478036 US



07-27-2001



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| FORM PTO-1595 1-31-92 | RECOF | Patent and Trademark Office |
|--|---------------------------------------|--|
| Docket No. To the Honorable Commission | par of Patents and 101 | 789772 ginal documents or copy thereof. |
| Name of conveying party Geobiotics, Inc. | | 2. Name and address of receiving party: Name: GeoBiotics, LLC Internal Address: JUL 2 3 2001 |
| Nature of conveyance: Assignment Security Agreement Other Execution Date: Decemb | · · · · · · · · · · · · · · · · · · · | City: State: Zip: Street Address: 14818 West 6th Avenue, Suite 5-A City: Golden State: Co Zip: 80401 Additional name(s) & address(es) attached? |
| Application number(s) or If this document | | plication, the execution date of the application is: |
| A. Patent Application No(s). Attorney Docket No. 209/ | | B. Patent No(s).: <u>5.431,717 Filed: 12/3/93 Attorney Docket No. 204/256</u> tached? ☑ Yes ☐ No |
| Rame: David A. Randall Internal Address: LYON 633 We Los And | | 6. Total number of applications and patents involved: 19 7. Total fee (37 CFR 3.41): \$ 760.00 ☑ Enclosed ☑ Charge this Deposit Account if any additional fee is required 8. Deposit Account Number: 12-2475 |
| <u> </u> | DO NOT US | E THIS SPACE |
| David A. Randall, Reg No. 37 | dge and belief, the foregoing informa | tion is true and correct and any attached copy is a true copy of the Date: July 18, 2001 et: 5 (NOTE: Apostille on back of last page.) |
| OMB No. 0651-0011 (exp. 4/9 | | |
| Mail documents to be rec 26/2001 TDIAZ1 00000010 0832 | Director — U.S. Pater Box Ass | ch this portion rmation to: at and Trademark Office signments n, D.C. 20231 |
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Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project, (0651-0011), Washington, D.C. 20503

6,159,726



Patent Applications

| Serial Number | Filing Date | Attorney Docket No. |
|---------------|-------------|---------------------|
| 08/459,621 | 6/2/95 | 213/032 |
| 09/650,319 | 8/29/00 | 256/248 |
| 09/709,765 | 11/10/00 | 258/211 |
| 09/735,156 | 12/12/00 | 258/212 |
| | | |
| | Patents | |
| Patent Number | Filing Date | Attorney Docket No. |
| 5,573,575 | 11/16/94 | 210/062 |
| 5,611,839 | 5/30/95 | 214/036 |
| 5,676,733 | 6/7/95 | 213/031 |
| 5,688,304 | 5/24/96 | 220/112 |
| 5,766,930 | 4/22/96 | 219/212 |
| 5,779,762 | 10/25/95 | 216/099 |
| 5,800,593 | 3/18/97 | 224/272 |
| 6,083,730 | 1/18/96 | 217/275 |
| 6,086,656 | 4/14/98 | 227/138 |
| 6,107,065 | 7/1/97 | 226/246 |
| 6,110,253 | 12/14/98 | 236/022 |
| 6,146,444 | 10/14/97 | 230/005 |
| | | |

6/12/98

233/157

State of Delaware Office of the Secretary of State

PAGE

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"GEOBIOTICS, INC.", A DELAWARE CORPORATION,

WITH AND INTO "GEOBIOTICS, LLC" UNDER THE NAME OF

"GEOBIOTICS, LLC", A LIMITED LIABILITY COMPANY ORGANIZED AND

EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED

AND FILED IN THIS OFFICE THE TWENTY-EIGHTH DAY OF DECEMBER, A.D.

2000, AT 9 O'CLOCK A.M.



AUTHENTICATION: 0965555

DATE: 02-09-01

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STATE OF DELAWARE
SECRETARY OF STATE
DIVISION OF CORPORATIONS
FILED 09:00 AM 12/28/2000
001657724 - 3316790

CERTIFICATE OF MERGER OF GEOBIOTICS, INC. WITH AND INTO GEOBIOTICS, LLC

Pursuant to Section 264(c) of the Delaware General Corporation Law (the "DGCL") and Section 18-209 of the Delaware Limited Liability Company Act, the undersigned limited liability company executed the following Cartificate of Merger:

FIRST: The name of the surviving limited liability company is GeoBiotics, LLC, a Delaware limited liability company, and the name of the corporation being merged into this surviving limited liability company is GeoBiotics, Inc., a Delaware corporation.

SECOND: An Agreement and Plan of Merger has been approved, adopted, certified, executed and acknowledged by GeoBiotics, LLC and GeoBiotics, Inc. in accordance with Section 264 of the DGCL.

THIRD: The name of the surviving limited liability company is GeoBiotics, LLC.

FOURTH: The Agreement and Plan of Merger is on file at 14818 West 6th Avenue, Suite 5-A, Golden, Colorado 80401, the place of business of GeoBiotics, LLC.

FIFTH: A copy of the Agreement and Plan of Merger will be furnished by GeoBiotics, LLC, on request and without cost, to any stockholder of GeoBiotics, Inc. or any member of GeoBiotics, LLC.

IN WITNESS WHEREOF, GeoBiotics, LLC has caused this certificate to be signed by Desmond P. Kearns, a director of GeoBiotics, LLC, the 20 day of December, 2000.

GEOBIOTICS, LLC

Name: Desmond P. Kearns Title: Director





UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

MARCH 14, 2001

PTAS

LYON & LYON LLP
DAVID A. RANDALL, ESQ.
633 WEST FIFTH STREET
SUITE 4700
LOS ANGELES, CA 90071-2066



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256/248

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/26/2000

REEL/FRAME: 011386/0964

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

KOHR, WILLIAM J.

DOC DATE: 12/02/2000

ASSIGNOR:

SHRADER, VANDY

DOC DATE: 12/05/2000

ASSIGNOR:

JOHANSSON, CHRIS

DOC DATE: 12/02/2000

ASSIGNEE:

GEOBIOTICS, INC.

14818 W. 6TH AVENUE, SUITE 5-A

GOLDEN, COLORADO 80401

SERIAL NUMBER: 09650319

PATENT NUMBER:

FILING DATE: 08/29/2000

ISSUE DATE:

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U.S. PROSECUTION

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| Docket No. 256/248 2 101572792 | | | | | | | | | |
| | the Honorable Compossioner of Patents and Trademarks. Pleas | se record the attached original do | ocuments or copy thereof. | | | | | | |
| 1. | Name of conveying party(ies): | | Name and address of receiving party: | | | | | | |
| | William J. Kohr, Vandy Shrader and Chris Johansson | Name: GEOBIOTICS, INC. | | | | | | | |
| 1 | Additional name(s) of conveying party(ies) attached? | | | | | | | | |
| | ☐ Yes ⊠ No | Internal Address: | | | | | | | |
| 3. | Nature of conveyance: | | | | | | | | |
| ١ | | City: | State: Zip: | | | | | | |
| idi | ☐ Security Agreement ☐ Change of Name | Street Address: 14818 W. 6th Avenue, Suite 5-A | | | | | | | |
| 1 | · | | | | | | | | |
| M. S. | Other | • | | | | | | | |
| | | City: Golden | State: <u>CO</u> Zip: <u>80401</u> | | | | | | |
| Ĭ. | Execution Date: December 5, 2000 | | | | | | | | |
| <i>`</i> €`_ | | Additional name(s) & address(e | es) attached? Yes No | | | | | | |
| 4. | Application number(s) or patent number(s): | | | | | | | | |
| | If this document is being filed together with a new app | plication, the execution date of the | e application is: | | | | | | |
| ▮▲ | Patent Application No(s).: 09/650,319 | B. Patent No(s).: | • | | | | | | |
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| j-é | Additional numbers att | ached? Tes No | | | | | | | |
| _5 . | Name and address of party to whom correspondence | 6. Total number of application | ons and patents involved: One | | | | | | |
| | concerning document should be mailed: | | | | | | | | |
| D) | Name: David A. Randall, Esq. | 7. Total fee (37 CFR 3.41): \$ 40.00 ☑ Enclosed | | | | | | | |
| m | | | | | | | | | |
| m | Internal Address: LYON & LYON LLP | | • , | | | | | | |
| <u></u> | 633 West Fifth Street, Suite 4700 | Charge this Deposit Account if any additional fee is required | | | | | | | |
| | Los Angeles, CA 90071-2066 | | | | | | | | |
| _= | | | ! | | | | | | |
| | | 8. Deposit Account Number: 12-2475 | | | | | | | |
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| 9. | Statement and signature: | | | | | | | | |
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| H. | To the best of my knowledge and belief, the foregoing information | tion is true and correct and any a | ttached copy is a true copy of the | | | | | | |
| 1= | original document. | | | | | | | | |
| | D. 910 LM | Data: Da embe | 18 2000 | | | | | | |
| D | vid A. Randall, Reg No. 37,217 | Date. | | | | | | | |
| Da | Vid A. Raildan, Reg 110. 37,217 | | · | | | | | | |
| Total number of pages including cover sheet: 5 | | | | | | | | | |
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| | Public burden reporting for this sample cover sheet is estimate including time for reviewing the document and gathering the d | ed to average about 30 minutes p | reviewing the sample cover sheet | | | | | | |
| | Send comments regarding this burden estimate to the U.S. Pa | itent and Trademark Office. Office | e of Information Systems. PK2- | | | | | | |

1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project, (0651-0011), Washington, D.C. 20503



<u>ASSIGNMENT</u>

WHEREAS, WE, WILLIAM J. KOHR, VANDY SHRADER and CHRIS JOHANSSON, all citizens of UNITED STATES OF AMERICA (hereinafter referred to as "ASSIGNORS"), have invented and own a certain invention entitled HIGH TEMPERATURE HEAP BIOLEACHING PROCESS for which application for Letters Patent of the United States of America under Attorney Docket No. 256/248 was filed on August 29, 2000 and assigned Serial No. 09/650,319; and

WHEREAS, GEOBIOTICS, INC., a corporation organized and existing under and by virtue of the laws of the State of Delaware and having its principal place of business at 14818 W. 6th Avenue. Suite 5-A. Golden, Colorado 80401 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the exclusive right, title and interest in, to and under said invention and in, to and under any Patent or similar legal protection to be obtained therefor in the United States of America, its territorial possessions and in any and all countries foreign thereto.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign, transfer and set over unto the said ASSIGNEE, its successors and assigns, the full and exclusive right, title and interest to said invention and to all Letters Patent or application or similar legal protection, not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for said invention by said application, and to any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in the United States or a foreign country for the full term or terms for which the same may be granted, including all priority rights under the International Convention; and ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent or any legal equivalent thereof to said ASSIGNEE, its successors and assigns, in accordance with this Assignment.





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ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Agreement;

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents in the United States or in any foreign country, which may be necessary or desirable to carry out the purposes thereof.

WILLIAM J. KOHR

STATE OF CALIFORNIA San Hateo

SS.

COUNTY OF ALAMEDA A

On <u>Jecember 2</u>, 2000, before the undersigned, a Notary Public for the State and County aforesaid, personally appeared WILLIAM J. KOHR known to me to be the person whose name is subscribed to the above Assignment, and acknowledged that he executed the same.



Notary Public in and for Said County and State





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| WITNESS my hand at Sanjuateo, California, this 5th day of December | | | | | |
|---|--|--|--|--|--|
| 2000. | | | | | |
| Vander Vandy Shrader | | | | | |
| STATE OF CALIFORNIA) | | | | | |
| COUNTY OF ALAMEDA) ss. | | | | | |
| On Notary Public for the | | | | | |
| State and County aforesaid, personally appeared VANDY SHRADER known to me to be the person | | | | | |
| whose name is subscribed to the above Assignment, and acknowledged that he executed the same. | | | | | |
| SKIP DAHL Commission # 1256656 Notary Public - California San Mateo County My Comm. Expires Apr 9, 2004 Notary Public in and for Said County and State | | | | | |
| WITNESS my hand at <u>So. Santany</u> California, this <u>Z</u> day of <u>Ole</u> . | | | | | |
| , , , , , , , , , , , , , , , , , , , | | | | | |
| Chrin Jahanson | | | | | |
| CHRIS JOHANSSON | | | | | |
| STATE OF CALIFORNIA) | | | | | |
| San Mateo) ss. | | | | | |
| COUNTY OF ALAMEDA OR) | | | | | |
| On December 2, 2000, before the undersigned, a Notary Public for the | | | | | |
| State and County aforesaid, personally appeared CHRIS JOHANSSON known to me to be the person | | | | | |
| whose name is subscribed to the above Assignment, and acknowledged that he executed the same. | | | | | |
| ANACORINA LOLA COMM. \$ 1288787 Notary Public in and for San MATEO COUNTY COMM. EXP. JUNE 9, 2004 | | | | | |

LA-170785.1